

CONTENTS OF VOLUME 35

Number 1

Characteristics of an Aluminium Alloy/Alumina Metal Matrix Composite S. ABIS (Italy)	1
An Acoustic Emission Technique for Measuring Fiber Fragment Length Distributions in the Single-Fiber-Composite Test A. N. NETRAVALI, L. T. T. TOPOLESKI, W. H. SACHSE & S. L. PHOENIX (USA)	13
Failure Mechanisms in Continuous Carbon-Fibre Reinforced PEEK Composites P. J. HINE, B. BREW, R. A. DUCKETT & I. M. WARD (UK)	31
A Simple Laminate Theory Using the Orthotropic Viscoplasticity Theory Based on Overstress. Part I: In-plane Stress-Strain Relationships for Metal Matrix Composites ERHARD KREMPL & BOR ZEN HONG (USA)	53
The Effects of Time, Temperature and Stress on the Long-Term Behaviour of CFRP B. PONSOT, D. VALENTIN & A. R. BUNSELL (France)	75
Conference Diary	95

Number 2

Special Issue: Metal Matrix Composites

Guest Editorial S. J. HARRIS (UK)	99
--------------------------------------	----

408

Influence of Anisotropic Distribution of Whiskers on the Superplastic Behavior of Aluminum in a Back-Extruded 6061 Al-20% SiC _w Composite	105
G. GONZÁLEZ-DONCEL (Spain), S. D. KARMARKAR, A. P. DIVECHA & O. D. SHERBY (USA)	
Extrusion and High-Temperature Deformation of Fibre-Reinforced Aluminium	121
C. A. STANFORD-BEALE & T. W. CLYNE (UK)	
The Solidification Microstructure of Particulate Reinforced Aluminium/SiC Composites	159
D. J. LLOYD (Canada)	
Considerations of the Reliability of Tensile Strength at Elevated Temperature of Unidirectional Metal Matrix Composites.	181
KOICHI GODA & HIDEHARU FUKUNAGA (Japan)	
Quantitative Metallographic Study of Fibre Morphology in a Short Alumina Fibre Reinforced Aluminium Alloy Matrix	195
D. VAN HILLE (France), S. BENGTSSON & R. WARREN (Sweden)	
The Fibre/Matrix Interfacial Shear Strength in Titanium Alloy Matrix Composites Reinforced by Silicon Carbide or Boron CVD Filaments	207
Y. LE PETITCORPS, R. PAILLER & R. NASLAIN (France)	
Conference Diary	215

Number 3

Influence of Temperature and Moisture on Total Strain Energy Release Rates Associated with Edge Delamination of Composite Test Coupons	219
ULRICH SCHANZ & GERALD KRESS (FRG)	
Effect of Forming Temperature on the Properties of Polymeric Diaphragm Formed Thermoplastic Composites	235
C. M. O'BRÁDAIGH & P. J. MALLON (USA)	
Nonlinear Creep Deformation Analysis of a Radiation-Cured Wood-Polymer Composite	257
FREDDY Y. C. BOEY (Singapore)	
A Note on Analytical Representation of Anisotropic Viscoelastic Constitutive Equations for Fiber-reinforced Composites	273
R. J. STANGO, S. S. WANG & C. R. NELSON (USA)	
Effects of Fibre Bridging on G_{IC} of a Unidirectional Glass/Epoxy Composite	283
X. N. HUANG & D. HULL (UK)	

Measurement of Initiation Values of G_{IC} in IM6/PEEK Composites	301
P. DAVIES, W. CANTWELL & H. H. KAUSCH (Switzerland)	

Conference Diary	315
----------------------------	-----

Number 4

Resin Impregnation During Composites Manufacturing: Theory and Experimentation	317
JOHN P. COULTER & SELÇUK I. GÜÇERİ (USA)	

Probabilistic Strength Analyses of Interlaminated Hybrid Composites	331
HISAO FUKUNAGA (Japan), TSU-WEI CHOU (USA) & HIROSHI FUKUDA (Japan)	

A Material Model for the Finite Element Analysis of Metal Matrix Composites	347
J. F. WU, M. S. SHEPHARD, G. J. DVORAK & Y. A. BAHEI-EL-DIN (USA)	

End Corrections for Orthotropic DCB Specimens	367
J. G. WILLIAMS (UK)	

Ply Cracking and Property Degradations of Symmetric Balanced Laminates Under General In-Plane Loading.	377
Y. M. HAN & H. T. HAHN (USA)	

Conference Report	399
-----------------------------	-----

Conference Diary.	402
---------------------------	-----

Subject Index	405
-------------------------	-----

Author Index	407
------------------------	-----